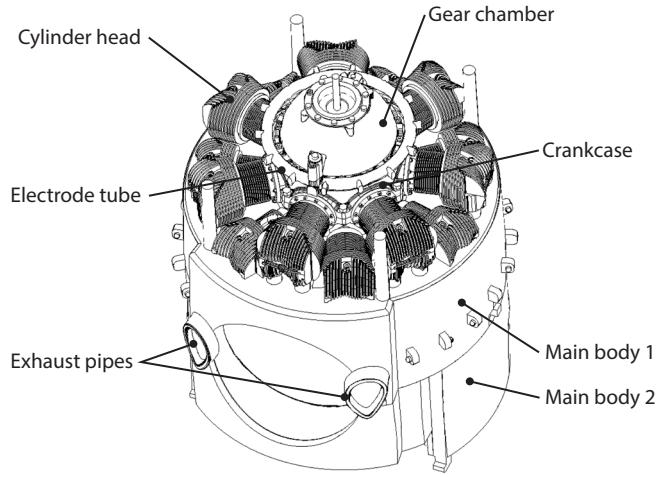
Modelspace
1:16 scale Mitsubishi A6M2b Zero
Propeller + Engine Sound System
Painting manual

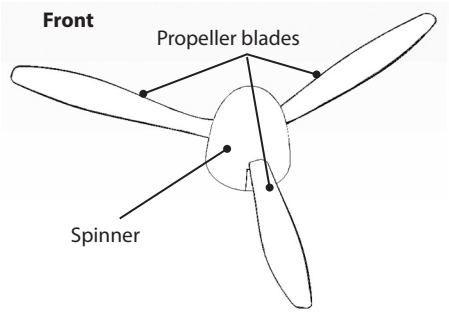
If you intend to paint the model, please read this manual before assembling it.

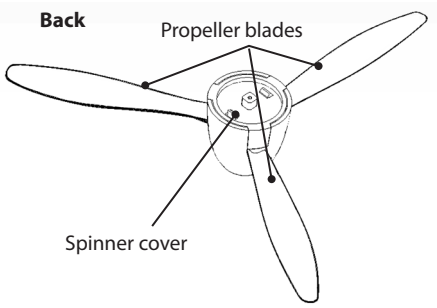


Painting the main body

Use paints designed for plastic models.

Colour	Parts to be painted
Burnt iron	Cylinder head Exhaust pipes
Silver	Electrode tube
Light grey	Crankcase Gear chamber
Semi-gloss black	Main body 1 Main body 2



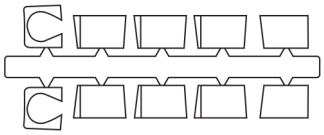


Painting the propeller

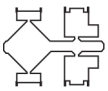
Refer to Stage 56, Steps 9-10 for how to paint the propeller.

Colour	Parts to be painted
Silver	Spinner Spinner cover Propeller front
Semi-gloss black	Propeller back

Cowl flaps



Cowl flap hinges

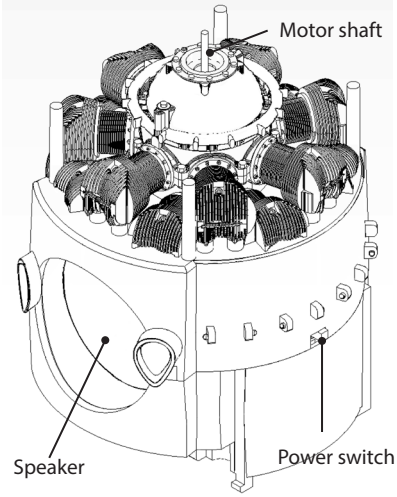


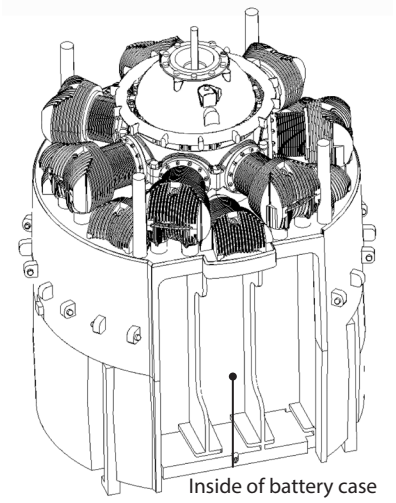
Painting the cowl flaps/cowl flap hinges

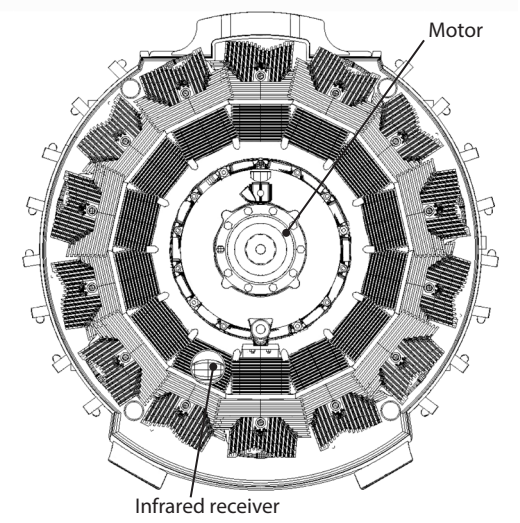
See Stage 97, Steps 1-2.

Caution

- Do NOT paint the six areas shown below, as they may stop functioning normally if paint sticks to them.
- If you paint the gaps between the parts, paint may enter the machinery and cause a malfunction.
- Apply masking tape to the parts shown below before painting.
- If paint enters the battery contacts, there is a risk of it being impossible to switch on the power.
- If paint covers the infrared receiver, there is a risk that the remote control won't be able to connect to it.

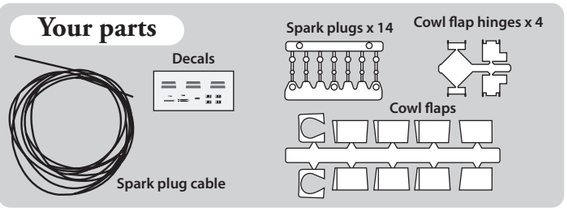






Assembly guide

Your parts



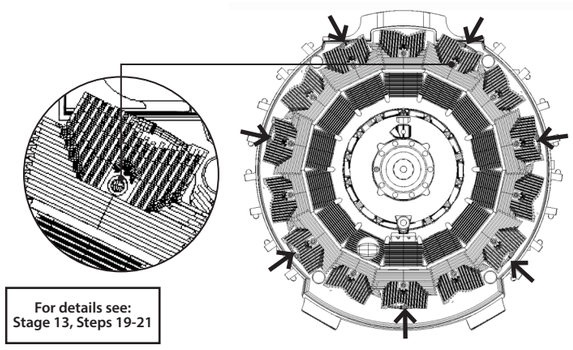
1 Prepare the spark plugs

For details see:
Stage 13, Steps 10-18

To prepare the spark plugs, you should refer to the Step-by-Step instructions in Stage 13.

2 Drill holes to fit the spark plugs

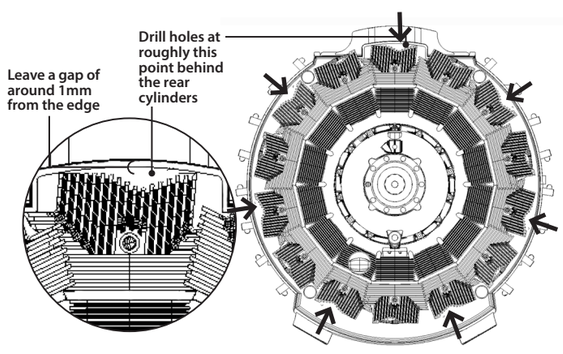
Use a drill to make holes 1mm in diameter and 1.5mm deep in the circular depressions of all 14 cylinders, shown in the centre of the inset (below left). Drill a hole into the rear side of the forward cylinders, indicated by the arrows.



For details see:
Stage 13, Steps 19-21

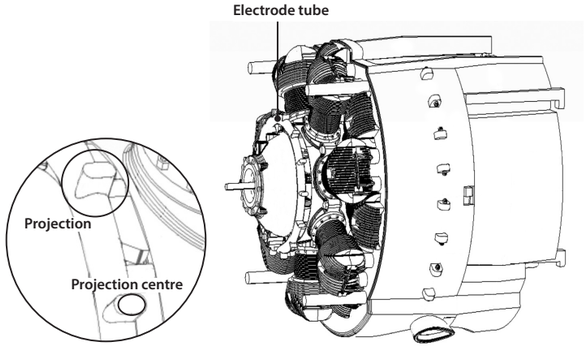
3 Drill holes for the spark plug cables 1

Use a drill to make holes 0.7mm in diameter and 1.5mm deep in the base of the model, at the back of the rear cylinders (arrows). Use a pin or similar to mark the rough spot before drilling.



4 Drill holes for the spark plug cables 2

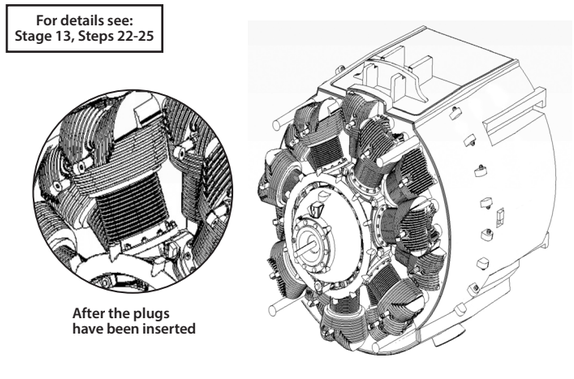
Use a drill to make holes 0.7mm in diameter and 1.5mm deep in the centre of each of the projections on the electrode tube. Use a pin or similar to mark the rough spot before drilling, as in Step 3.



5 Attach the plugs to the cylinder head

Fit the spark plugs into the 14 holes drilled in Step 2.

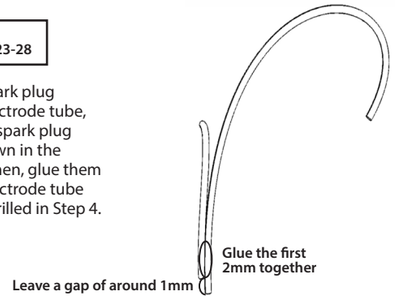
For details see:
Stage 13, Steps 22-25



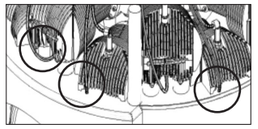
6 Preparing and fitting the spark plug cables

For details see:
Stage 50, Steps 16-18/23-28

When preparing the spark plug cables to fit into the electrode tube, first glue two pieces of spark plug cables together, as shown in the diagram on the right. Then, glue them into the holes in the electrode tube projections that were drilled in Step 4.



As the cylinders don't have holes in the back of them as they do on the metal engine, the cables will need to be glued directly into the holes drilled in Step 2.

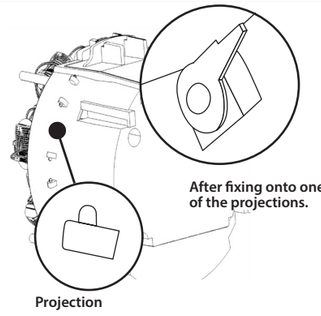


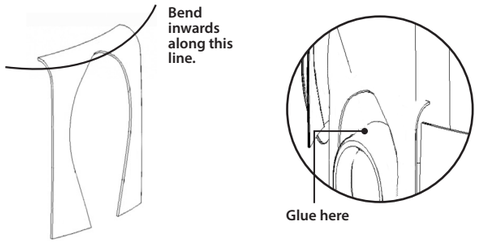
The rear cylinders only have a front half, so the spark plug cables should be glued into the holes drilled in Step 3.

7 Assembling the cowl flaps and cowl flap hinges

For details see:
Stage 97, Steps 1-16

'Cowl Flap parts A', though used in the Step-by-Step build will not be used here. Assemble the cowl flaps as in Stage 97 and fix onto the projections circling the model. These parts are movable, so should not be glued.



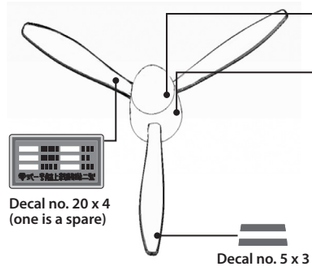


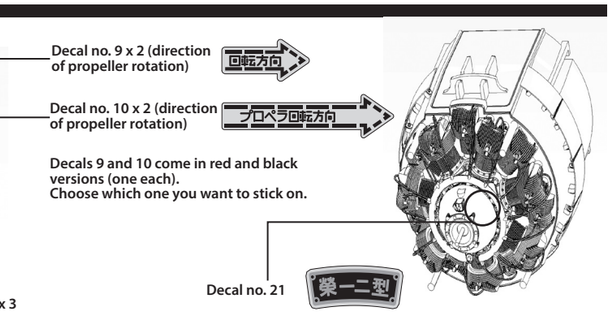
To glue 'Cowl Flap part H' onto the model as in Step 16 of the Step-by-Step instructions, bend them at the line shown above, then glue the bent parts to the model, over the exhaust outlets.

8 Applying decals to the propeller and engine

For details see:
Stage 99, Steps 20-26

Before applying any decals, you may want to have a decal softener and setter to hand to help you.



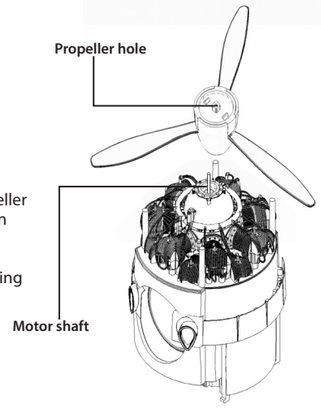

Decal no. 9 x 2 (direction of propeller rotation)
回転方向
Decal no. 10 x 2 (direction of propeller rotation)
プロペラ回転方向
Decals 9 and 10 come in red and black versions (one each).
Choose which one you want to stick on.
Decal no. 21
第一二型

9 Attaching the propeller to the motor shaft

Insert the motor shaft firmly into the propeller hole, as far as it will go.

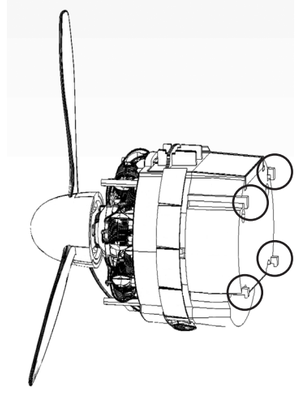
Caution
If it is not inserted fully, the propeller may come loose during operation and cause a serious accident.

Attach the cowling before attaching the propeller.



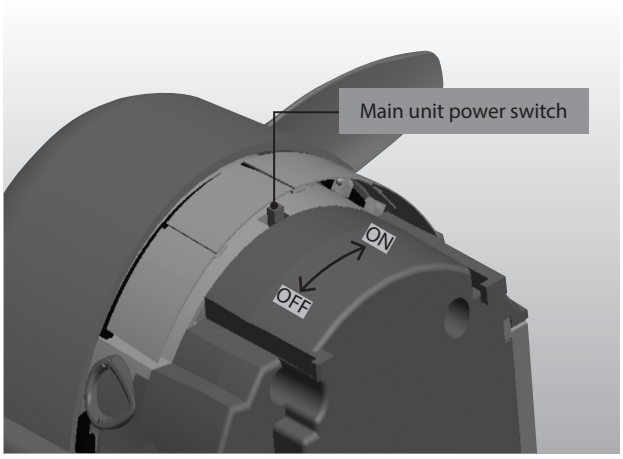
10 How to attach the engine

Remove the metal engine currently attached to the aircraft body, along with the lubricating oil tank. Next, push the hooks of this engine through the holes of the firewall and hook it into place.

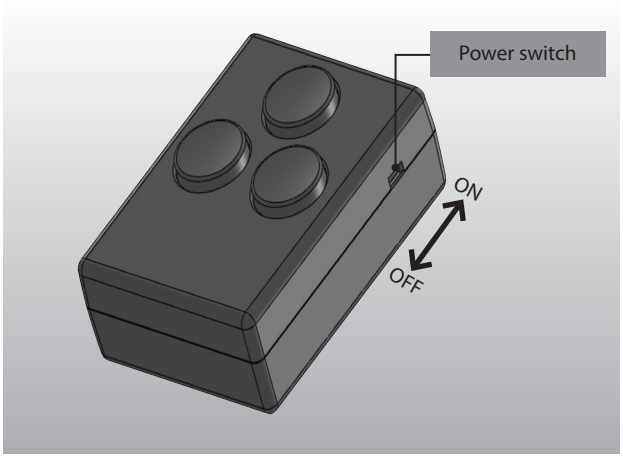


User manual

Detach the engine from the model and attach the engine sound system, then you can use the remote control to enjoy a powerful engine sound matching the propeller speed.
• Start by inserting batteries (three AAA) into the main unit.
Place them in the battery box, checking the markings to ensure their +/– orientation is correct, then switch on the main unit and the remote



Switch on the main unit by moving the main unit's power switch to the ON position.
It will shut off automatically if no instructions are received from the remote control for approximately 5 minutes.



Switch on the remote control by the power switch on the right side of the remote control to the ON position.
This runs on two LR44 batteries (included).

• Operate by pointing the remote control's infrared LED at the propeller.
Always switch it off when not in use.

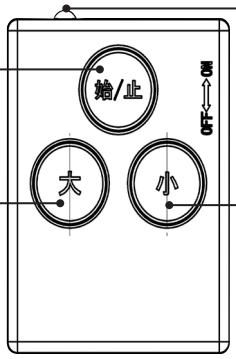
1. To start, gently press the 'Start/Stop' switch.
2. You will hear the sounds of the inertia starter rotating for approximately 3 seconds, then idling for approximately 15 seconds, then low power for approximately 16 seconds then high power.
The propeller rotation speed will also change at each stage.
3. To stop, gently press the 'Start/Stop' switch once.
It takes approximately 23 seconds for it to stop completely after you have pressed the switch. (Pressing it several times in succession will cause a malfunction.)

Start/Stop

When you press this button, if off it will start up, and if running it will begin the stopping process.

Volume up

If you press this button, the volume will increase by one step. Once the engine volume reaches its maximum level, it cannot increase further.



Infrared LED

- The remote control's range is up to one metre from the front of the propeller.
- If the batteries are depleted, operations may stop halfway through in order to prevent a malfunction. In such situations, you should replace all the batteries in the main unit with new ones.

Volume down

If you press this button, the volume will decrease by one step. The engine volume cannot decrease further than its minimum level (it will never become totally silent).

Precautions

- Operate this device in accordance with the user manual.
- This is precision machinery and should not be disassembled, modified or handled roughly.
- Be careful when using it near other machines with infrared receivers as there is a risk of malfunction.
- Do not place your fingers, face, hair etc. near the revolving blades.
- Do not deliberately lock the revolving blade part.
- Do not store or use in places subject to high temperature, high humidity or direct sunlight, such as inside vehicles.
- Do not use if broken.
- Set the batteries' plus and minus orientations correctly, and remove the batteries if not using for a long time.
- Do not use a mixture of batteries of different brands or types.
- Do not use a mixture of old and new batteries.
- Do not use rechargeable batteries.
- To avoid depleting the batteries, always switch off after use.
- Remove any depleted batteries promptly.
- If the product does not work correctly, try changing the batteries.
- Unsuitable for those aged under 12.
- Keep away from children.
- Be careful that the small parts do not get swallowed.
- Use and store out of the reach of children under 3.

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